Dawn Nelson Farm
4391 Alvin York Hwy
Whitwell, Tn 37397

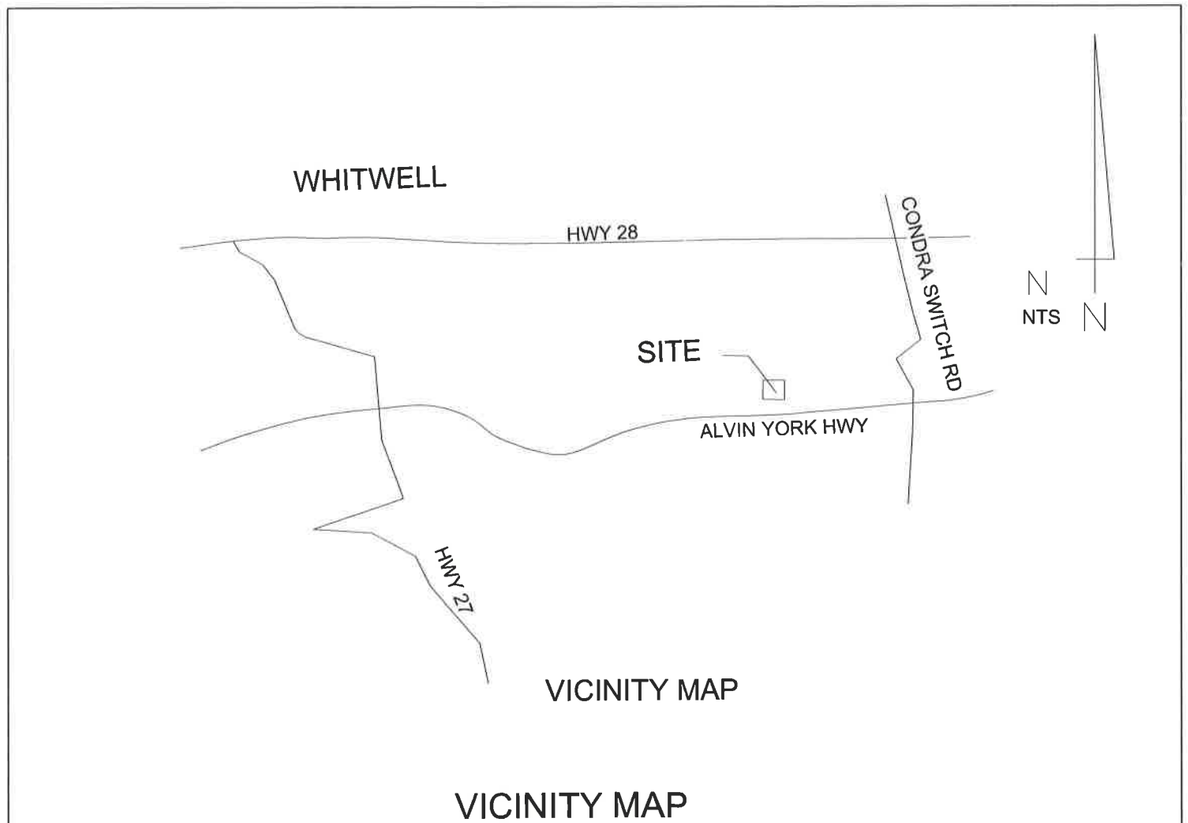
Owner: Dawn Nelson
4391 Alvin York Hwy
Whitwell, Tn 37397

Civil Engineer:Jamie Blanton
Thompson Engineering
630 Chestnut Street
Chattanooga, Tn 37402
Phone: 423.756.7970
Fax: 423.756.7970

Surveyor: Jeff C. Dawson
Thompson Engineering
360 Chestnut Street
Chattanooga, Tn 37402
Phone: 423.756.7970
Fax: 423.756.7970

Contractor: TBD

INDEX OF SHEETS



VICINITY MAP

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Dawn Nelson Farm
4391 Alvin York Hwy
Whitwell, Tn 37397

thompson ENGINEERING
630 Chestnut Street
CHATTANOOGA, TN. 37402
TEL: (423) 756-7970
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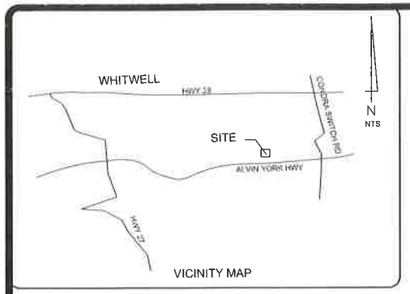
TE Project No.	1611090010
Drawing No.	16--1109--0010
File Name	
Drawn By	JD
Checked By	EH
Date of Survey	6.28.16
Date of Last Revision	7.11.16

COVER



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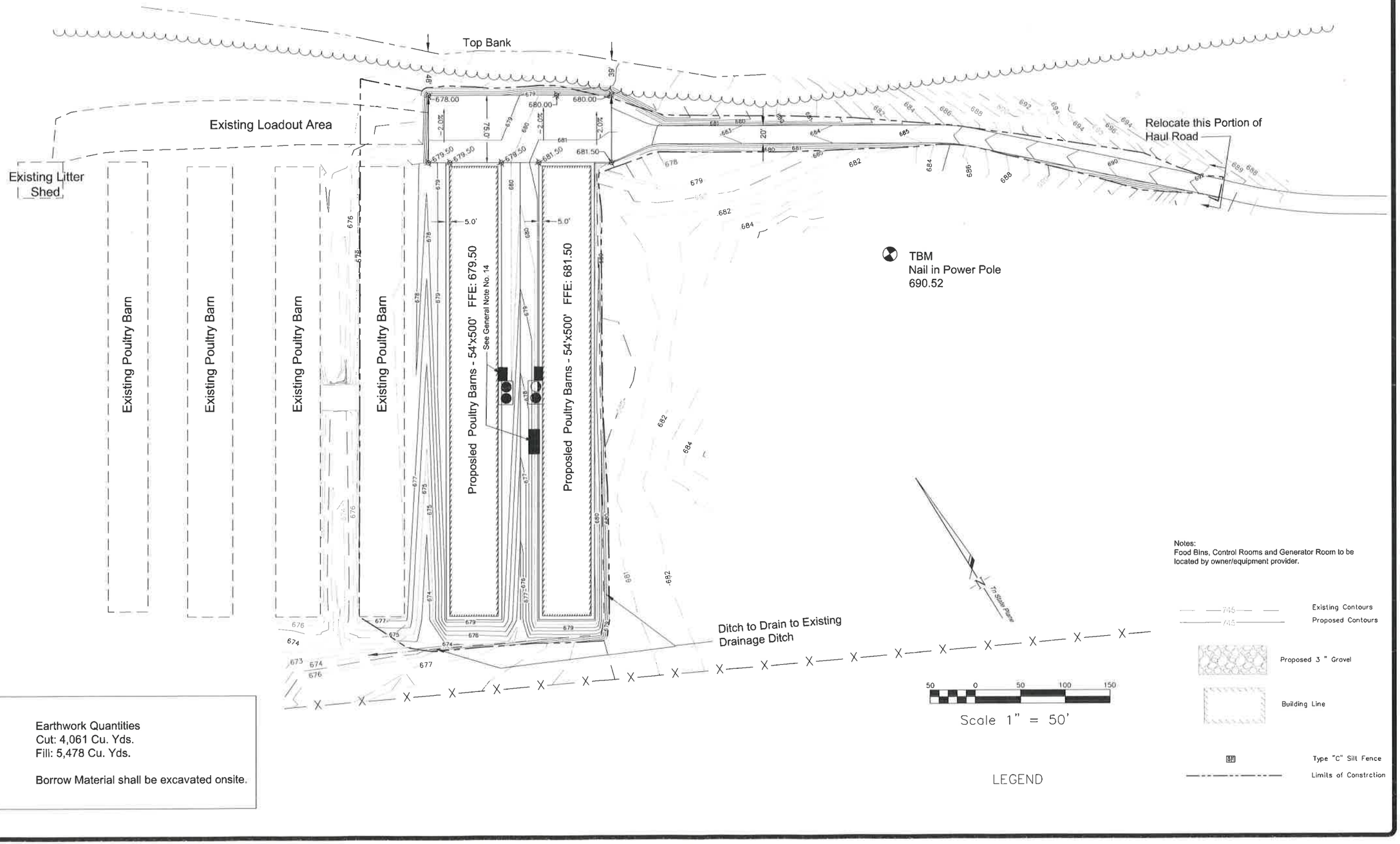

Earthwork Quantities
Cut: 4,061 Cu. Yds.
Fill: 5,478 Cu. Yds.

Borrow Material shall be excavated onsite.

Notes:
Food Bins, Control Rooms and Generator Room to be located by owner/equipment provider.

LEGEND

- Existing Contours
- Proposed Contours
- Proposed 3 " Gravel
- Building Line
- SF — Type "C" Silt Fence
- Limits of Constrction

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SITE GRADING AND DRAINAGE PLAN

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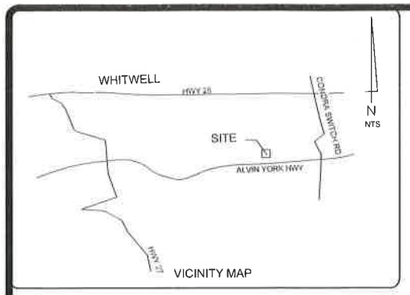

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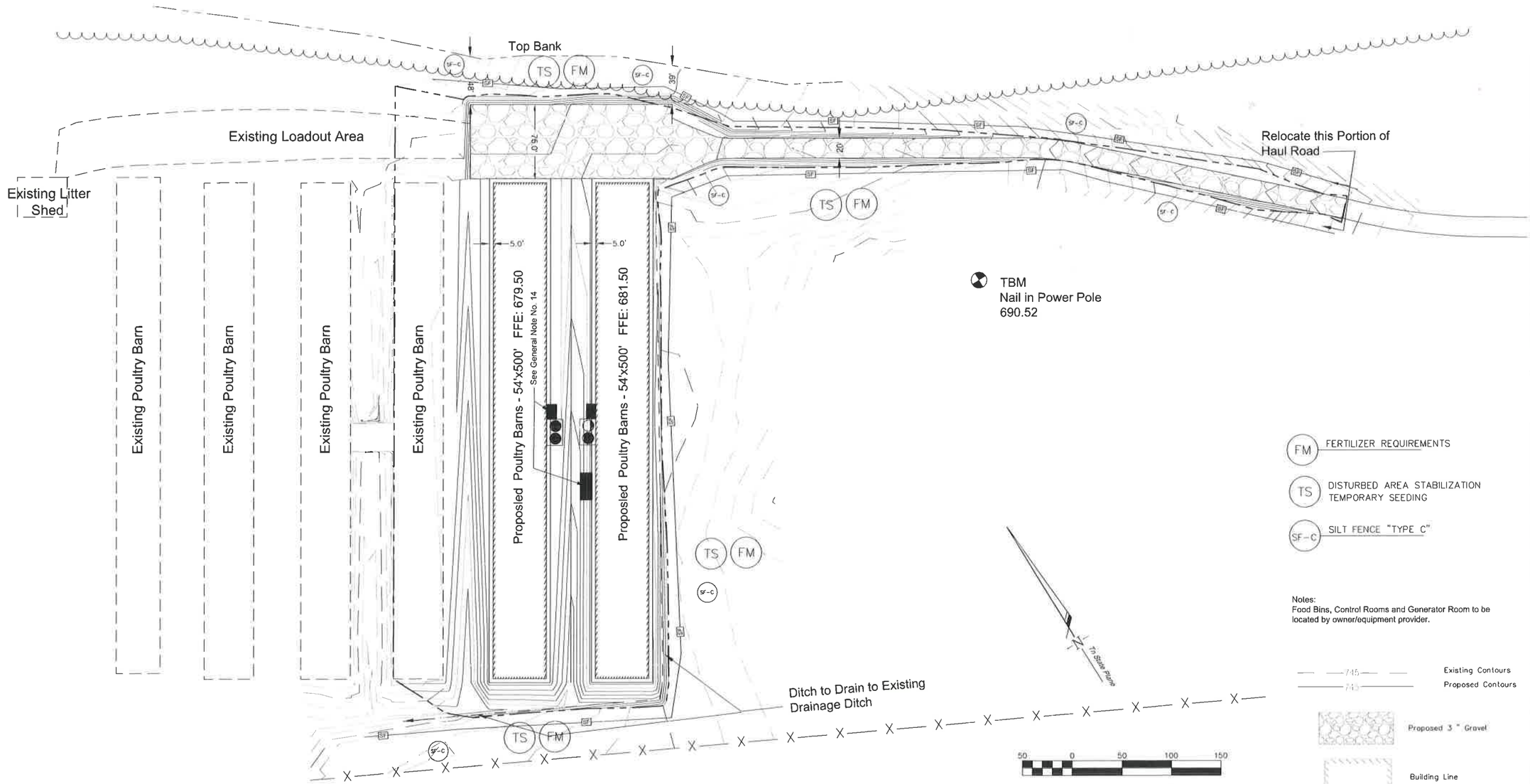

LEGEND

FM — FERTILIZER REQUIREMENTS

TS — DISTURBED AREA STABILIZATION TEMPORARY SEEDING

SF-C — SILT FENCE "TYPE C"

Notes:
Food Bins, Control Rooms and Generator Room to be located by owner/equipment provider.

745 — Existing Contours

745 — Proposed Contours

Proposed 3 " Gravel

Building Line

SF — SF-C — Type "C" Silt Fence

Limits of Constrction

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Whitwell, Tn 37397

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EROSION AND SEDIMENT CONTROL PLAN PHASE 1

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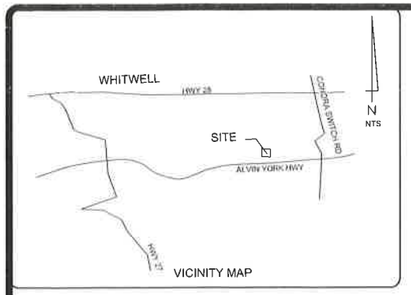

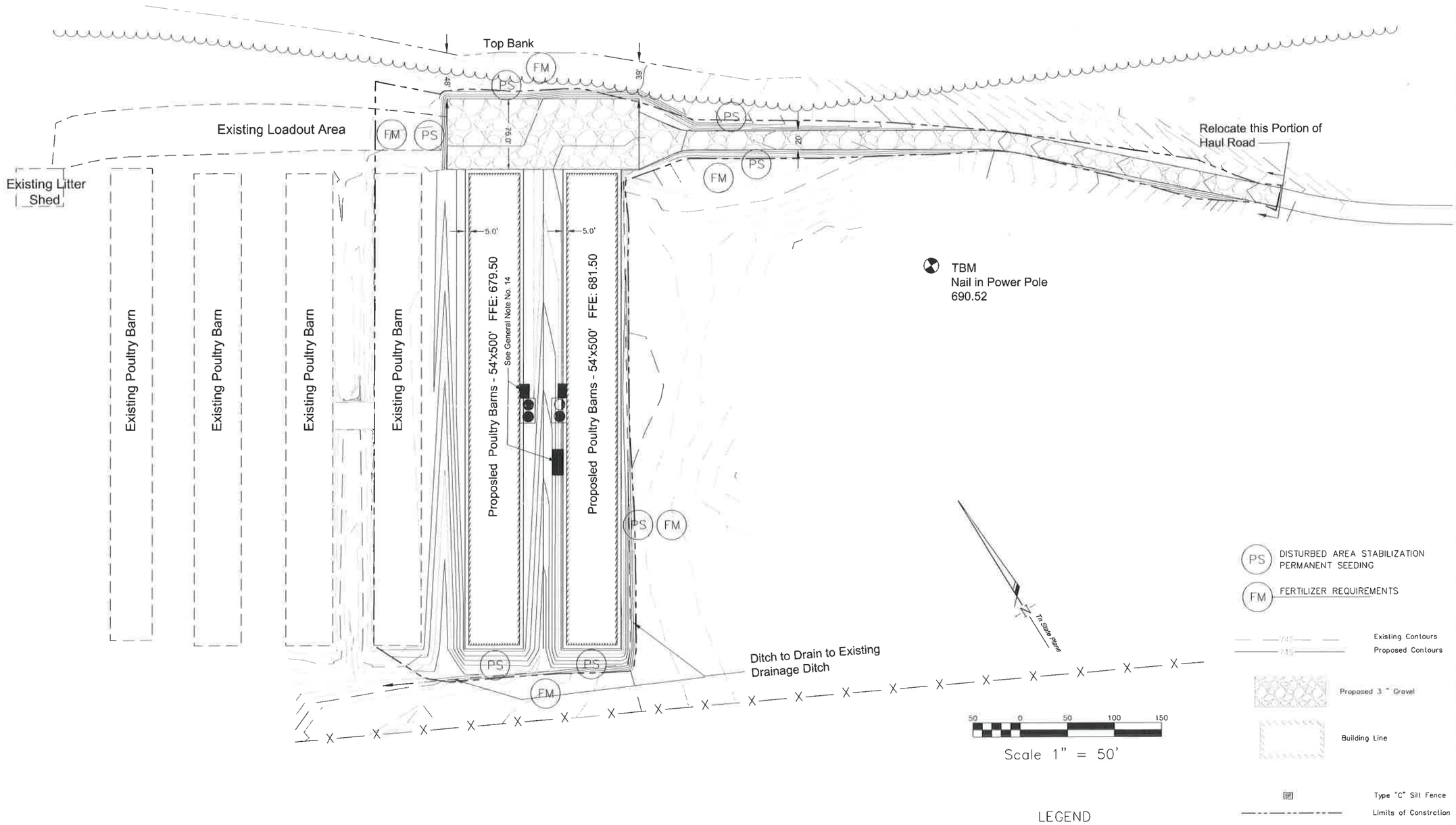

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EROSION AND SEDIMENT CONTROL PLAN PHASE 2

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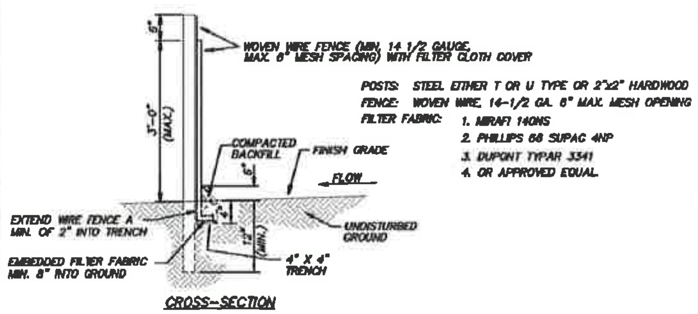
SF-C SILT FENCE "TYPE C"



1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE EROSION CONTROL PLAN. COLLECTED MATERIAL SHALL BE REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

TS DISTURBED AREA STABILIZATION TEMPORARY SEEDING

Species — **Rate (lb/acre)**
Rye — 120

Seeding dates
East ....Above 2500 feet: Feb. 15 - May 15
Below 2500 feet: Feb. 1- May 1
Middle .... Jan. 1 - May 1
West .... Dec. 1 - Apr. 15

Soil amendments
Follow recommendations of soil tests or apply 2.000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.

Mulch
Apply 4.000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

Maintenance
Refertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately following erosion or other damage.

Figure 7.8-1 Temporary Seeding Recommendation for Late Winter and Early Spring

FM FERTILIZER REQUIREMENTS

Species — **Rate (lb/acre)**
Oats — 60
Brown top millet — 30

Seeding dates
East .... May 15 - Aug. 15
Middle .... May 1 - Aug. 15
West .... Apr. 15 - Aug. 15

Soil amendments
Follow recommendations of soil tests or apply 2.000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.

Mulch
Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

Maintenance
Refertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately following erosion or other damage.

Figure 7.8-2 Temporary Seeding Recommendation for Summer

Species — **Rate (lb/acre)**
Oats — 30
Winter wheat — 30

Seeding dates
East .... Aug 15 – Dec 15
Middle .... Aug. 15 – Dec 30
West .... Aug. 15 – Dec 30

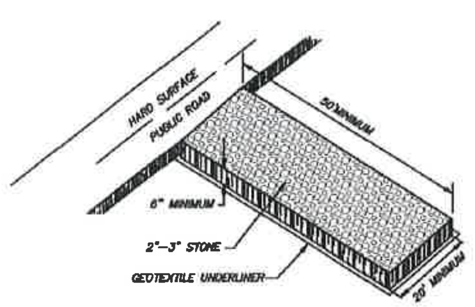
Soil amendments
Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.

Mulch
Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

Maintenance
Refertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately following erosion or other damage. If necessary to extend temporary cover beyond June 15, overseed with 50 lb/ac crimson clover in late February or early March.

Figure 7.8-3 Temporary Seeding Recommendations for Fall

CE CONSTRUCTION ENTRANCE



PS DISTURBED AREA STABILIZATION PERMANENT SEEDING

Region II	Low maintenance: Slopes and Poor. shallow soils	Aug 25 – Sept 15 **Feb 15 – May 30**	Sept 15 – Oct 25 Mar 21 – May 30	15 Browntop millet* (nurse crop) 5 little bluestem 2 switch grass 2 tall dropseed 5 sideoats gramma 2 black-eyed susan 2 partridge pea 1 greyheaded coneflower
	Low maintenance: Moderate slopes: soils >6 in. depth	Aug 25 – Sept 15 **Feb 15 – May 30**	Sept 15 – Oct 25 Mar 21 – Apr 15	15 Browntop millet* (nurse crop) 5 purpletop 5 little bluestem 5 Virginia wild rye 2 black-eyed susan 2 partridge pea 1 greyheaded coneflower
	High maintenance	Aug 30 – Oct 15	Feb 15 – Apr 15	15 Browntop millet* (nurse crop) 2 partridge pea 45 Red fescue* 45 hard fescue* 25 chewing fescue*

FM FERTILIZER REQUIREMENTS

Topsoil: Topsoil should be replaced on all areas to be seeded. See Practice 7.3 for more information on the removal, storage and reapplication of topsoil.

Seedbed Preparation: When conventional seeding is to be used, topsoil should be applied to any area where the disturbance results in subsoil at the final grade surface. Figure 7.9-3 provides guidance on the volume of topsoil required to provide specific topsoil depths. Soil pH should be above 5 – preferably between 6.0 and 6.5. Soil on the site should be tested to determine lime and fertilizer rates. Soil should be submitted to a soils specialist or County Agricultural Extension agent for testing and soil amendment recommendations. In the absence of soil test results, the following application rates can be used:

- **Ground agricultural limestone:**
  Light-textured, sandy soils: 1- 1 1/2 tons/acre
  Heavy-textured, clayey soils: 2-3 tons/acre
- **Fertilizer:**
  Grasses: 800-1200 lb/acre of 10-10-10 (or the equivalent)
  Grass-legume mixtures: 800-1200 lb/acre of 5-10-10 (or the equivalent)

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EROSION AND SEDIMENT CONTROL PLAN DETAILS

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PROJECT INFORMATION

TOTAL LAND DISTURBED IS 3.7 ACRES.

DESCRIPTION OF ACTIVITIES - CONSTRUCTION OF TWO POULTRY HOUSES, INCLUDING CLEARING AND GRUBBING OF SITE.

SOIL NATURE AS INDICATED BY THE USDA SOIL SURVEY OF MARION CO., TN IS PRIMARILY

Sm Staser Loam
Wm-Whitwell
Ec-Etowah Silty Clay Loam

NO STORM WATER ORIGINATES FROM THIS SITE WHICH IS CONTRIBUTED FROM INDUSTRIAL ACTIVITIES

THE STORMWATER DRAINAGE RELEASED FROM THE SITE DRAINS WEST TO THE SEQUATCHIE RIVER.
NO WETLANDS HAVE BEEN IDENTIFIED ON THIS SITE.

A TENNESSEE GENERAL STORM WATER PERMIT WITH TDEC FOR CONSTRUCTION SITE RUNOFF IS REQUIRED FOR THIS PROJECT.
NEW BARN CONSTRUCTION DOES NOT LIE IN THE 100 YEAR FLOOD HAZARD AREA AS SHOWN ON FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 47115C0155C; EFFECTIVE DATE: 2/4/09

THE BOUNDARY SURVEY AND TOPOGRAPHIC INFORMATION HAS BEEN PROVIDED BY THOMPSON ENGINEERING, (423) 756-7950

SITE BENCHMARK FOR THIS SITE IS NAIL IN POWER POLE, ELEV. 690.52, AS SHOWN ON DRAWING AND PROVIDED BY THOMPSON ENGINEERING, (423) 756-7970.

PROPERTY ADDRESS: 4391 ALVIN YORK HWY
WHITWELL, TN 37397

PROPERTY OWNER: DAWN NELSON FARMS
423.414.1197

GENERAL NOTES:

1. ALL UTILITY LOCATIONS TO BE FIELD VERIFIED BY PROPER AGENCIES BEFORE BEGINNING CONSTRUCTION. UNDERGROUND UTILITIES ARE NOT FIELD LOCATED NOR ARE ALL PURPORTED TO BE SHOWN. INFORMATION SHOWN SHOULD BE CONSIDERED APPROXIMATE. CONTRACTOR TO CONTACT ALL UTILITY COMPANIES TO HAVE UTILITIES FIELD LOCATED BEFORE EXCAVATION OR DEMOLITION WORK BEGINS.
2. ALL WORK AND MATERIALS SHALL COMPLY WITH LOCAL, STATE, FEDERAL, O.S.H.A. REGULATIONS, CODES AND STANDARDS.
3. CONTRACTOR SHALL OBTAIN ALL PERMITS BEFORE CONSTRUCTION BEGINS.
4. NECESSARY AND SUFFICIENT BARRICADES, LIGHTS, SIGNS, AND OTHER TRAFFIC CONTROL MEASURES AS MAY BE NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC SHALL BE PROVIDED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
5. THE LOCATIONS OF EXISTING UNDERGROUND OR OVERHEAD UTILITIES HAVE NOT BEEN VERIFIED BY OWNER OR AN ENGINEERING SERVICES INC. CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND OR OVERHEAD UTILITIES.
6. CONTRACTOR MUST CALL TENNESSEE ONE CALL AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST THE EXACT LOCATION OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
7. ALL EXISTING TREES, VEGETATION AND ORGANIC TOPSOIL SHALL BE STRIPPED AND REMOVED FROM THE CONSTRUCTION AREA AS REQUIRED.
8. NO WORK SHALL OCCUR OFFSITE ON PROPERTY OWNED BY OTHERS WITHOUT THE OWNER AND CONTRACTOR OBTAINING WRITTEN PERMISSION AND THE REQUIRED PERMITS TO DO SO.
9. DIMENSIONS ON BUILDINGS ARE FOR GRADING PURPOSES ONLY AND SHOULD NOT BE USED TO LAYOUT FOOTINGS.
10. THE CONTRACTOR SHALL REPAIR OR REPLACE IN-KIND ANY DAMAGE THAT OCCURS AS A RESULT OF HIS WORK.
11. IT IS THE INTENT OF THIS PROJECT FOR THE CONTRACTOR TO VERIFY AND MATCH EXISTING CONDITIONS UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER/ARCHITECT OF ANY ITEMS THAT DO NOT EXIST AS SHOWN.
12. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER/ARCHITECT OF ANY CONFLICTING INFORMATION OR DISCREPANCIES THAT EXISTS ON THE CONTRACT DOCUMENTS OR DRAWINGS.
13. IN THE EVENT THAT THERE IS CONFLICTING INFORMATION ON THE DRAWING OR SPECIFICATIONS THE MORE STRINGENT REQUIREMENT WILL APPLY.
14. FOOD BINS, CONTROL ROOMS AND GENERATOR ROOM TO BE LOCATED BY OWNER/EQUIPMENT PROVIDER.
15. ALL GRADES/QUANTITIES ARE ESTIMATES ONLY AND ARE TO BE VERIFIED BY THE CONTRACTOR.
16. ROCK OUTCROPPING APPEARS TO BE BOULDERS, BUT MUST BE VERIFIED BY THE CONTRACTOR. ANY ADDITIONAL COST INCURRED WITH EXCAVATION SHALL BE APPROVED BY OWNER PRIOR TO EXCAVATION.

DRAINAGE & GRADING NOTES:

1. ALL CONSTRUCTION MUST CONFORM TO LOCAL STANDARDS AND SPECIFICATIONS.
2. EROSION CONTROL DEVICES TO BE PLACED PRIOR TO CUTTING AS SHOWN AND/OR AS DIRECTED BY PROJECT ENGINEER AND OR TDEC INSPECTOR
3. ALL TRENCHING AND SHORING SHALL COMPLY WITH OSHA STANDARDS.
4. PIPE LENGTHS AND SLOPE ARE MEASURED FROM THE CENTER OF STRUCTURE AND ARE APPROXIMATE.
5. THE SUITABILITY OF THE EXISTING SUBGRADE AND EXISTING SITE MATERIAL SHALL BE EVALUATED BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO ANY FILL WORK.
6. FILL MATERIAL SHALL BE FREE OF DEBRIS, STICKS, STUMPS, ROCKS AND ORGANICS.
7. IN CONFINED AREAS SUCH AS UTILITY TRENCHES, PORTABLE COMPACTION EQUIPMENT AND THIN LIFTS OF 3 TO 4 INCHES MAY BE REQUIRED TO ACHIEVE SPECIFIED DEGREES OF COMPACTION. COMPACTION OF BACKFILL IN ALL TRENCHES SHALL BE 95% OF MAXIMUM DRY WEIGHT ACCORDING TO ASTM D698.
8. FILL SHOULD BE PLACED IN THIN LIFTS WITH A MAXIMUM LOOSE THICKNESS OF 6 INCHES, THEN COMPACTED TO 95 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY, WITH A MOISTURE CONTENT WITHIN 3 PERCENT OF THE OPTIMUM MOISTURE CONTENT, DEPENDING ON THE TIME OF THE YEAR SITE GRADING IS PERFORMED. THE TOP ONE FOOT BELOW GRADE SUPPORTED SLABS, AND THE TOP 2 FEET BENEATH PAVEMENTS SHALL BE COMPACTED TO 100 PERCENT STANDARD PROCTOR COMPACTION. THE EDGE OF THE COMPACTED FILL SHOULD EXTEND AT LEAST 10 FEET BEYOND THE OUTSIDE BUILDING EDGE, AND AT LEAST 5 FEET BEYOND THE OUTSIDE EDGE OF PAVEMENTS BEFORE SLOPING. A QUALIFIED GEOTECHNICAL ENGINEER SHOULD TEST THE DENSITY AND MOISTURE CONTENT OF EACH LIFT BEFORE PLACING ADDITIONAL LIFTS. FILL PLACEMENTS SHOULD BE WITNESSED BY A QUALIFIED GEOTECHNICAL ENGINEER. FREQUENT FILL DENSITY AND MOISTURE TESTS SHOULD BE PERFORMED TO VERIFY THAT THE SPECIFIED DEGREE OF COMPACTION IS BEING ACHIEVED. ANY AREAS THAT DO NOT MEET THE COMPACTION SPECIFICATION SHOULD BE RE-COMPACTED TO ACHIEVE COMPLIANCE.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EARTHWORK QUANTITIES PRIOR TO CONTRUCTION.
10. ANY UNUSABLE SOIL MATERIALS SHALL EITHER BE RESPREAD ONSITE AT A LOCATION APPROVED BY THE ENGINEER OR DISPOSED OFFSITE LEGALLY. ALL GRUBBING DEBRIS SHALL DISPOSED OFFSITE BY CONTRACTOR AT AN APPROVED LOCATION UNLESS OTHERWISE APPROVED BY ENGINEER TO BE PLACED ONSITE.
11. BLEND ALL SLOPES WITH SURROUNDING ENVIRONMENT. IF ANY FIELD ADJUSTMENTS ARE REQUIRED DUE TO TOPOGRAPHY VARYING FROM THE TOPOGRAPHIC SURVEY, ENGINEER SHALL BE NOTIFIED PRIOR TO CHANGES.
12. UNLESS OTHERWISE SPECIFIED, ALL SLOPES TO BE COVERED WITH A MINIMUM OF 3" OF TOPSOIL.
13. PRE CAST STRUCTURES MAY BE USED IN LIEU OF CAST IN PLACE STRUCTURES. ALL CONCRETE TO HAVE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.
14. CONTRACTOR IS TO ENSURE THAT ALL CONTROL POINTS AND BENCHMARKS ARE PROTECTED AND MAINTAINED THROUGHOUT THE ENTIRE PROJECT. IF POINTS ARE COMPROMISED, THEN PROJECT MAY NEED TO CEASE UNTIL SUCH POINTS AND GRADE ARE REESTABLISHED.
15. ALL NEW FINISHED CONTOURS ARE TOP OF PAVEMENT OR TOP OF TOPSOIL TO BE SEEDED.
16. THE GRADES SHOWN ARE FINISHED GRADES. CONTRACTOR SHALL DETERMINE SUBGRADE ELEVATIONS BY EXAMINING TYPICAL PAVEMENT SECTIONS.
17. IN NO CASE SHALL ANY PAVED AREAS BE LESS THAN 1.00% UNLESS OTHERWISE NOTED.
18. ALL PERMANENT CUT/FILL SLOPES SHALL BE NO STEEPER THAN 2 H TO 1 V (UNLESS OTHERWISE NOTED IN PLANS).
19. SEE GENERAL AND EROSION CONTROL NOTES FOR ADDITIONAL INFORMATION.

DEMOLITION NOTES

1. UTILITY LOCATIONS TO BE FIELD VERIFIED BY PROPER AGENCIES BEFORE BEGINNING CONSTRUCTION. UNDERGROUND UTILITIES ARE NOT FIELD LOCATED NOR ARE ALL PURPORTED TO BE SHOWN. INFORMATION SHOWN SHOULD BE CONSIDERED APPROXIMATE. CONTRACTOR TO CONTACT ALL UTILITY COMPANIES TO HAVE UTILITIES FIELD LOCATED BEFORE EXCAVATION OR DEMOLITION WORK BEGINS.
2. ALL WORK AND MATERIALS SHALL COMPLY WITH THE CITY, STATE, FEDERAL, O.S.H.A. REGULATIONS, CODES AND STANDARDS. CONTRACTOR SHALL OBTAIN ALL PERMITS BEFORE CONSTRUCTION BEGINS.
3. NECESSARY AND SUFFICIENT BARRICADES, LIGHTS, SIGNS, AND OTHER TRAFFIC CONTROL MEASURES AS MAY BE NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC SHALL BE PROVIDED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
4. THE LOCATIONS OF EXISTING UNDERGROUND OR OVERHEAD UTILITIES HAVE NOT BEEN VERIFIED BY OWNER OR THOMPSON ENGINEERING. CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND OR OVERHEAD UTILITIES.
5. CONTRACTOR MUST CALL TENNESSEE ONE CALL AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST THE EXACT LOCATION OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE NEW IMPROVEMENTS SHOWN ON THESE PLANS.
6. NOTIFY THE CITY INSPECTIONS DEPARTMENT 24 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
7. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
8. CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE BEGINNING CONSTRUCTION.
9. ALL EXISTING TREES, VEGETATION AND ORGANIC TOPSOIL SHALL BE STRIPPED AND REMOVED FROM THE CONSTRUCTION AREA AS REQUIRED.
10. NO WORK SHALL OCCUR OFFSITE ON PROPERTY OWNED BY OTHERS WITHOUT THE OWNER AND CONTRACTOR OBTAINING WRITTEN PERMISSION AND THE REQUIRED PERMITS TO DO SO.
11. A MINIMUM CLEARANCE OF TWO FEET SHALL BE MAINTAINED BETWEEN THE FACE OF CURB AND ANY PART OF A TRAFFIC SIGNAL OR LIGHT POLE.
12. THE CONTRACTOR SHALL SAW-CUT TO PROVIDE SMOOTH TRANSITION AT TIE-INS AT EXISTING EDGES OF PAVEMENT AS NECESSARY
13. THE CONTRACTOR SHALL SAW-CUT TIE-INS AT EXISTING CURBS AS NECESSARY TO ENSURE SMOOTH TRANSITION TO MEET EXISTING PAVEMENT TO ENSURE POSITIVE DRAINAGE (TYPICAL AT ALL INTERSECTIONS).
14. JOINTS OR SCORE MARKS ARE TO BE SHARP AND CLEAN WITHOUT SHOWING EDGES OF THE JOINT TOOL.
15. DIMENSIONS ON BUILDINGS ARE FOR GRADING PURPOSES ONLY AND SHOULD NOT BE USED TO LAYOUT FOOTINGS
16. THE CONTRACTOR SHALL REPAIR OR REPLACE IN KIND ANY DAMAGE THAT OCCURS AS A RESULT OF HIS WORK.
17. IT IS THE INTENT OF THIS PROJECT FOR THE CONTRACTOR TO VERIFY AND MATCH EXISTING CONDITIONS UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER/ARCHITECT OF ANY ITEMS THAT DO NOT EXIST AS SHOWN.
18. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER/ARCHITECT OF ANY CONFLICTING INFORMATION OR DISCREPANCIES THAT EXISTS ON THE CONTRACT DOCUMENTS OR DRAWINGS.
19. IN THE EVENT THAT THERE IS CONFLICTING INFORMATION ON THE DRAWING OR SPECIFICATIONS THE MORE STRINGENT REQUIREMENT WILL APPLY.
20. OWNER IS RESPONSIBLE FOR MAINTAINING ALL STORM DRAINS AND STRUCTURES FREE AND CLEAR OF DEBRIS TO MAINTAIN DESIGN FLOW CAPACITY.
21. FINISHED FLOOR ELEVATIONS SHOWN FOR GRADING PURPOSES ONLY. BUILDINGS TO BE CONSTRUCTED PER BUILDING PLANS.
22. STORM PIPES TO HAVE A MINIMUM OF 1 FT OF COVER OVER TOP OF PIPE.

EROSION CONTROL NOTES:

1. DISTURBED ACRE: 3.7
2. PRECONSTRUCTION IMPERVIOUS ACREAGE: 0.00 AC
3. POSTCONSTRUCTION IMPERVIOUS ACREAGE:: 1.35 AC
4. OWNERS REPRESENTATIVE FOR EROSION CONTROL AND MAINTENANCE:
   TO BE DETERMINED
   COMPANY:
   ADDRESS:
   CITY, STATE, ZIP:
   PHONE:
5. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED:
   - AT LEAST TWICE EVERY WEEK WITH THE INSPECTION OCCURRING AT LEAST 72 HOURS APART.
   - WITHIN 24 HOURS AFTER THE END OF STORM EVENTS 0.5 INCHES OR GREATER
   - BEFORE ANTICIPATED STORM EVENTS
   - A QUALIFIED INDIVIDUAL WILL PERFORM A SITE ASSESSMENT WITHIN A MONTH OF CONSTRUCTION COMMENCING AT EACH OUTFALL INVOLVING DRAINAGE TOTALING 10 OR MORE ACRES OR 5 OR MORE ACRES IF DRAINING TO AN IMPAIRED OR EXCEPTIONAL QUALITY WATERS AND DOCUMENT THE FINDINGS
6. ALL AREAS TO REMAIN BARE > 15 DAYS MUST BE TEMPORARILY STABILIZED. STEEP SLOPES OF 35% OR GREATER OR A 20-FOOT OR GREATER ELEVATION CHANGE THAT REMAINS BARE > 7 DAYS MUST BE TEMPORARILY STABILIZED.
7. AN NPEDS PERMIT IS REQUIRED FOR THIS PROJECT BECAUSE THE TOTAL DISTURBED AREA IS GREATER THAN 1.0 ACRE.
8. CONTRACTOR TO ADHERE TO THE TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK.
9. SEDIMENT AND EROSION CONTROL FACILITIES AND STORMWATER DRAINAGE FACILITIES SHALL BE CONSTRUCTED PRIOR TO ANY OTHER CONSTRUCTION.
10. ALL GRADED AREAS SHALL BE STABILIZED WITH A TEMPORARY FAST GROWING COVER AND/OR MULCHED NO LATER THAN 2 WEEKS AFTER DISTURBING ACTIVITY ENDS IN THOSE AREAS WHERE GRADING HAS CEASED AND FINE GRADING WILL NOT TAKE PLACE FOR AT LEAST 15 DAYS.
11. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL MEASURES AS CALLED FOR ON THE DRAWINGS UNTIL THE PROJECT IS COMPLETE AND FINAL STABILIZATION IS ACHIEVED.
12. IF FINES OR PENALTIES ARE LEVIED AGAINST THE PROPERTY OR PROPERTY OWNER BECAUSE OF LACK OF EROSION AND/OR SEDIMENT CONTROL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF ANY FINES OR PENALTIES WHICH WILL BE DEDUCTED FROM THE CONTRACT AMOUNT.
13. SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
14. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1.3" OF STONE AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
15. ALL DISTURBED AREAS NOT TO BE PAVED SHALL HAVE MINIMUM OF 3 INCHES OF TOPSOIL PLACED ON THEM AND SHALL BE SEEDED AS SPECIFIED.
16. SEDIMENT SHALL BE REMOVED FROM SILT FENCES AND OTHER SEDIMENTATION CONTROLS AS NECESSARY WHEN THE DEPTH OF THE TRAPPED SEDIMENT REACHES 50% CAPACITY.
17. ALL TEMPORARY SEDIMENT CONTROL DEVICES SHALL BE REMOVED AND/OR FILLED AFTER THE PERMANENT VEGETATION HAS BEEN ESTABLISHED.
18. MAXIMUM TOPSOIL THICKNESS FOR SLOPES STEEPER THAN 3:1 SHALL BE 3 INCHES.
19. ALL AREAS NOT OTHERWISE SURFACED ARE TO BE SEEDED, LANDSCAPED, MULCHED, WATERED AND MAINTAINED UNTIL AN ADEQUATE STAND OF GRASS IS OBTAINED.
20. THE GRADING CONTRACTOR SHALL USE WHATEVER MEASURES ARE REQUIRED TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL EROSION, CONSERVATION AND SILTATION ORDINANCES.
21. THE GRADING CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO CONTROL DUST BY SPRINKLING, OR BY OTHER METHODS AS DIRECTED BY THE ENGINEER OR THE OWNERS REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER.
22. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.
23. IF FULL IMPLEMENTATION OF THE SEDIMENT AND EROSION CONTROL PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
24. ALL CONTROL MEASURES MUST BE PROPERLY INSTALLED AND MAINTAINED TO RETAIN EROSION AND SEDIMENT ON SITE THROUGHOUT THE DURATION OF THE PROJECT. ALLOW NO SEDIMENT TO ESCAPE FROM THE SITE, INCLUDING ON ROADWAYS LEAVING SITE.
25. EROSION CONTROL MEASURES ARE TO BE CONSTRUCTED IN THE INITIAL PHASES OF CONSTRUCTION.
26. SEE GENERAL AND GRADING NOTES FOR ADDITIONAL INFORMATION.

Dawn Nelson Farm
4391 Alvin York Hwy
Whitwell, Tn 37397

thompson ENGINEERING
630 Chestnut Street
CHATTANOOGA, TN 37402
TEL: (423) 756-7970
FAX: (423) 756-7950

TE Project No. 16110900010
Drawing No. 16-1109-0010
File Name
Drawn By: JD
Checked By: EH
Date of Survey 5.26.16
Date of Last Revision 7.11.16

PROJECT NOTES

C4.0
5 of 5

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
Division of Water Resources
William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, TN 37243
Toll Free Number: 1-888-891-TDEC (8332)

Notice of Intent (NOI) for General NPDES Permit for Stormwater Discharges from Construction Activities (TNR100000)

Site or Project Name: Dawn Nelson Farm			**Existing NPDES Tracking Number: TNR**
Street Address or Location: 4391 Alvin York Hwy			Start date: July 2016
			Estimated end date: July 2017
Site Activity Description: Clearing, grubbing, and grading for two new poultry houses and gravel drives			Latitude (dd.dddd): 35.24036
			Longitude (-dd.dddd): -85.45267
County(ies): Marion	MS4 Jurisdiction:		Acres Disturbed: 37
			Total Acres: 41

Does a topographic map show dotted or solid blue lines ☒ and/or wetlands ☐ on or adjacent to the construction site?
If wetlands are located on-site and may be impacted, attach wetlands delineation report.
If an Aquatic Resource Alteration Permit has been obtained for this site, what is the permit number? ARAP permit No.:

Receiving waters: Unnamed tributary of Sequatchie River

Attach the SWPPP with the NOI: ☒ SWPPP Attached | Attach a site location map: ☒ Map Attached

Site Owner/Developer Entity (*Primary Permittee*): (person, company, or legal entity that has operational or design control over construction plans and specifications): Dawn Nelson

Site Owner/Developer Signatory (V.P. level/higher - signs certification below): (individual responsible for site): Dawn Nelson			Signatory's Title or Position (V.P. level/higher - signs certification below): Owner
Mailing Address: 4391 Alvin York Hwy		City: Whitwell	State: TN Zip: 37397
Phone: (423) 414-1197	Fax: ( )	E-mail: dawnnelsonfarms@att.net	

Optional Contact:		Title or Position:	
Mailing Address:		City:	State: Zip:
Phone: ( )	Fax: ( )	E-mail:	

Owner or Developer Certification (must be signed by president, vice-president or equivalent, or ranking elected official) (Primary Permittee)

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Owner or Developer Name (print or type): Dawn Nelson	Signature: Dawn Nelson	Date: 05/31/2016

Contractor(s) Certification (must be signed by president, vice-president or equivalent, or ranking elected official) (Secondary Permittee)

I certify under penalty of law that I have reviewed this document, any attachments, and the SWPPP referenced above. Based on my inquiry of the construction site owner/developer identified above and/or my inquiry of the person directly responsible for assembling this NOI and SWPPP, I believe the information submitted is accurate. I am aware that this NOI, if approved, makes the above-described construction activity subject to NPDES permit number TNR100000, and that certain of my activities on-site are thereby regulated.

Contractor company name (print or type):			
Contractor signatory (print/type) (V.P. level or higher):		Signature:	Date:
Mailing Address:		City:	State: Zip:
Phone: ( )	Fax: ( )	E-mail:	

Other Contractor company name (print or type):			
Other Contractor signatory (print/type) (V.P. level or higher):		Signature:	Date:
Mailing Address:		City:	State: Zip:
Phone: ( )	Fax: ( )	E-mail:	

OFFICIAL STATE USE ONLY

Received Date:	Reviewer:	Field Office:	Permit Number **TNR:** 112915	Exceptional TN Water:
Fee(s):	T & E Aquatic Flora and Fauna:		Impaired Receiving Stream:	Notice of Coverage Date:

RECEIVED
JUL 13 '16
ENVIRONMENT & CONSERVATION
CHATTANOOGA FIELD OFFICE

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION

ENVIRONMENTAL FIELD OFFICE

1301 Riverfront Parkway, Suite 206
Chattanooga, TN 37402

(423)634-5745 STATEWIDE 1-888-891-8332 (423)634-6389

Receipt: EAC-CH-3064 **Date of Receipt:** 13-Jul-2016 9:40 am **Created By:** Richard Bunch (BG55010)

County: Marion **EFO/Office:** Chattanooga Field Office

Received From: Dawn Nelson

Company/Affiliation: Dawn Nelson Farms

Recipient Address: 4391 Alvin York Hwy.
WHITWELL, TN- 37397

Amount Received: $250.00 **Method of Payment:** CHECK **Check Number:** 2792

Comments: Dawn Nelson Farm
4391 Alvin York Hwy.

Division	Description	TDEC Code	Quantity	Unit Price	Line Total
WPC	WPC-NOI $250 Permit Application	43.340.F02	1	$250.00	$250.00

Receipt Total: **$250.00**

Visit us at: http://tn.gov/environment/

CN-1139 (Rev. 6-09) RDA S1730

This report is best viewed in Internet Explorer version 6.0 and above.

Storm Water Pollution Prevention Plan (SWPPP)

For

Dawn Nelson Farm
4391 Alvin York Hwy
Whitwell, TN 37397

Prepared For:

Dawn Nelson Farm
4391 Alvin York Hwy
Whitwell, TN 37397
(423) 414-1197

Prepared By:

Thompson Engineering
630 Chestnut Street
Chattanooga, TN 37402
| Phone: (423) 756-7970 | Fax: (423) 756-7950 |

May 17, 2016

Estimated Project Dates:
Start of Construction: July 2016
Completion of Construction: July 2017

Table of Contents

SWPPP APPENDICES:

ATTACHMENTS:

STORM WATER CERTIFICATION PAGE

Project: Dawn Nelson Farm, Marion County, Tennessee

Owner Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Dawn Nelson
Representative of owner/developer

Dawn Nelson
Signature

7/12/16
Date

Address: 4391 Alvin York Hwy Whitwell, TN 37397

Phone : (423) 414-1197

Contractor Certification:

I certify under penalty of law that I have reviewed this document, any attachments, and the SWPPP referenced above. Based on my inquiry of the construction site owner/developer identified above and/or my inquiry of the person directly responsible for assembling this NOI and SWPPP, I believe the information submitted is accurate. I am aware that this NOI, if approved, makes the above-described construction activity subject to NPDES permit number TRNxxxxxx and that certain of my activities onsite are thereby regulated. I am aware that there are significant penalties, including the possibility of fine and imprisonment for knowing violations and for failure to comply with these permits requirements.

Primary contractor, print or type

Signature

Date

Address: _____

Phone: _____

I certify under penalty of law that I have reviewed this document, any attachments, and the SWPPP referenced above. Based on my inquiry of the construction site owner/developer identified above and/or my inquiry of the person directly responsible for assembling this NOI and SWPPP, I believe the information submitted is accurate. I am aware that this NOI, if approved, makes the above-described construction activity subject to NPDES permit number TRNxxxxxx and that certain of my activities onsite are thereby regulated. I am aware that there are significant penalties, including the possibility of fine and imprisonment for knowing violations and for failure to comply with these permits requirements.

Other contractor, print or type

Signature

Date

Address: _____

Phone: _____

SECTION 1: SITE EVALUATION, ASSESSMENT, AND PLANING

1.1 Project/Site Information

Project/Site Name: Dawn Nelson Farm
Project Street/Location: 4391 Alvin York Hwy
County: Marion State: TN Zip Code: 37397
County or Similar Subdivision: Marion County
Latitude: 35 14' 23.31" N Longitude: -85 27' 6.61" W

Method for determining latitude/longitude:
☒ USGS topographic map (specify scale: _____) ☐ EPA Web Site ☐ GPS
☐ Other (please specify): _____

Is the project located in Indian country? ☐ Yes ☒ No

If Yes, name of Reservation, or if not part of a Reservation, indicate "not applicable": ☒N/A

Is this project considered a federal facility? ☐ Yes ☐ No

NPDES project or permit tracking number: Applied for

1.2 Contact Information/Responsible Parties

Project Manager(s) or Site Supervisor(s):
Dawn Nelson
4391 Alvin York Hwy
Whitwell, TN 37397
(423) 414-1197

Primary Contractor:
To Be Determined

This SWPPP Was Prepared By:
Thompson Engineering
630 Chestnut Street
Chattanooga, TN 37402
Phone: (423) 756-7970
Fax: (423) 756-7950
ehiggins@thompsonengineering.com

Subcontractor(s):
None at this time

Emergency 24 hour contact:
Dawn Nelson
4391 Alvin York Hwy
Whitwell, TN 37397
(423) 414-1197

1.3 Nature and Sequence of Construction Activity

This Stormwater Pollution Prevention Plan (SWPPP) will address the erosion and sediment control BMP's required for this construction of new poultry houses. The total disturbed area is approximately 3.581 acres. The construction will consist of two (2) new poultry houses. This will include clearing and grading the site to create level pads for the buildings and gravel drives for access to the buildings.

The order of activities for this SEPPP will be as follows:

1. Post NOC in a prominent display near the entrance to the site.
2. Install rain gauge on site.
3. Install stabilized construction exit on site.
4. Install silt fencing as indicated on the Erosion & Sediment Control Plan.
5. Clear and grade site for preparation of building pads and drives. Contractor should maintain a maximum slope of 3:1 except in locations noted on the plans. In no locations should slopes exceed 2:1.
6. Seed/straw for permanent stabilization.
7. When all construction activity is complete and the site is stabilized, remove silt fences.
8. Prepare and submit NOT to the State of Tennessee Environmental Protection Division once the construction activities are complete and final stabilization of the site is in place.

What is the function of the construction activity?
☐Residential ☒Commercial ☐Industrial ☐Road Construction
☐Linear Utility
☐Other (please specify)

Estimated Project Start Date: July 2016

Estimated Project Completion Date: July 2017

1.4 Soils, Slopes, Vegetation, and Current Drainage Patterns

Soil type(s):
Sm – Staser Loam- HSG B
Wm – Whitwell Loam- HSG B
Ec – Etowah Silty Clay Loam, eroded rolling phase-HSG B

A copy of the soil map is included in Appendix D

Slopes:
The site slopes range from nearly level to moderately sloped.

Drainage Patterns:
Site stormwater runoff drains to the north and south into a drainage ditch which travels west to the Sequatchie River.

Vegetation:
Site vegetation is pasture.

Other:
There is no known historical contamination.

1.5 Construction Site Estimates

The following are estimates of the construction site:

Construction Site Area to be disturbed	~	3.7 ± acres
Total project area	~	3.7 ± acres
Percentage of impervious area before construction		0.0 %
SCS Curve Number before construction		2.53
Percentage of impervious area after construction		36.7 %
SCS Curve Number after construction		3.09

1.6 Receiving Waters

Description of receiving waters: Sequatchie River

Description of storm sewer systems: Not applicable

Description of impaired waters or waters subject to TMDLs: Sequatchie River is 303(d) listed for siltation.

1.7 Potential Sources of pollution

The primary potential source of storm water pollution from this project site will be erosion of exposed soils entertaining sediment in storm water runoff. Best management practices have been designed to 1) prevent erosion from occurring as well as 2) remove sediment from storm water in the event that erosion occurs.

Other potential pollutants include petroleum products and refuse that may be generated during site construction activities. The site contractor will be required to prevent escape of these pollutants and immediately clean up any observed spill or litter.

1.8 Maps

Full size 24x36 project sheets and information included are as follows:

C1.0 SITE PLAN & GRADING & DRAINAGE PLAN
C2.0 EROSION & SEDIMENT CONTROL PLAN PHASE 1
C2.1 EROSION & SEDIMENT CONTROL PLAN PHASE 2
C3.0 EROSION & SEDIMENT CONTROL STANDARD DRAWINGS
C4.0 PROJECT NOTES

SECTION 2: EROSION AND SEDIMENT CNTROL BMPS

This Storm Water Pollution Prevention Plan (SWPPP) is developed in accordance with the Tennessee General NPDES Permit (TNR100000) for Storm Water Discharges Associated with Construction Activity (TNCGP), and is prepared using sound engineering practices. As such, the following Best Management Practices (BMP's) shall be utilized as specified below.

2.1 Minimize Disturbed Area and Protect Natural Features and Soil

Erosion and Sediment Controls – General Requirements

1. Erosion prevention and sediment controls used at the site are designed to control storm runoff generated by a 5-year, 24-hour storm event.
2. Perimeter erosion control measures shall be installed prior to any work on the site. These include silt fencing and construction exit.
3. All control measures must be properly installed and maintained in accordance with the manufacturer's specifications and good engineering practices.
4. If sediment escapes the construction site, the contractor shall remove the accumulated sediment and restore the off-site area to a clean, sediment free condition.
5. Sediment should be removed from silt fences and other sediment controls as necessary to maintain these devices in a functional state. Sediment must be removed when the design capacity of the device is reduced by 50%.
6. Litter, construction debris, and construction chemicals exposed to storm water shall be picked up on a regular basis and the site shall be thoroughly cleaned of such items prior to any anticipated storm events.
7. Work shall be sequenced to minimize the exposure time of bare soil areas.
8. Erosion and sediment control measures must be in place and functional before earth moving operations begin, and must be maintained throughout construction. Temporary measures may be removed at the beginning of the workday but must be replaced at the end of the workday.
9. The following records shall be maintained on the site: the dates when major grading activities occur; the dates when construction activities temporarily or permanently cease on a portion of the site; and the dates when stabilization measures are initiated.

Erosion and Sediment Controls – Stabilization Practices

1. Only those areas within the indicated limits of construction shall be disturbed during stabilization activities.
2. Temporary Stabilization measures include the following items, which are noted on the plans: silt fence, temporary seeding, and mulching.
3. Permanent stabilization measures include permanent seeding and mulching.
4. Erosion control measures shall be initiated as soon as practical in portions of the site where stabilization activities have temporarily or permanently ceased, but in no case more than fourteen days after the activity in that portion of the site has temporarily or permanently ceased. Where activity is temporarily ceased in the affected area, and earth-disturbing activities will resume within 14 days, temporary stabilization measures do not have to be initiated in that area.
5. Temporary or permanent soil stabilization shall be accomplished within 15 days after final grading or other earthwork. Permanent stabilization with perennial grasses shall replace any temporary measures as soon as practical.

Erosion and Sediment Control – Structural Practices

1. The proposed plans include the implementation of the following structural practices:

    - Construction Exit
    - Silt Fence
    - Check Dams
    - Filter Ring
    - Outlet Protection
    - Construction Road Stabilization
    - Concrete Truck Washout

2. A stabilized construction exit has been provided to help reduce vehicle tracking of sediments. The paved streets adjacent to the site entrance shall be swept to remove any excess mud, dirt or rock tracked from the site. Dump trucks hauling material from the construction site will be covered with tarpaulins.

2.2 Establish Stabilized Construction Exits

CE – Construction Entrance/Exit:

- The construction exit will consist of a minimum pad size of 20 ft. x 50 ft. x 6 in. thick stone placed as shown on the plan. The stone size should consist of a course aggregate between 1-1/2" & 3-1/2" diameter and overlaid on a geotextile underliner. The geotextile underliner shall meet the requirements of AASHTO M288-96, section 7.3 separation requirements.
- Installation Schedule: Prior to any other construction. A stabilized construction entrance shall be constructed at each point of entry to or exit from the site or onto any public right of way (ROW).
- Maintenance and Inspection: The construction exit shall be maintained in a condition that will prevent track or flow of mud onto public right-of –way (ROW). This may require periodic top dressing with 1 – 3" of stone. As conditions demand, all materials spilled, dropped, washed, or tracked from vehicle onto public roadway or into storm drain must be removed immediately.

Responsible Person: PRIMARY CONTRACTOR

2.3 Establish perimeter controls and sediment barriers

SF – Silt Fence:

- The silt fence should be kept erect at all times and repaired when requested by the site inspector or the project design professional of record.
- Installation Schedule: The silt fence is considered to be an initial erosion control measure and shall be implemented prior to any other construction activity.
- Maintenance and Inspection: The perimeter silt fence should be inspected daily for any failures. Any failures of said fencing should be repaired immediately. Silt should be removed when accumulation reaches ½ height of the barrier. The silt fence shall be maintained until permanent ground cover is established on the slope.

Responsible Person: PRIMARY CONTRACTOR

CW – Concrete Truck Washout

- Site-built washouts should be constructed by providing a temporary pit or bermed area sized large enough to handle solids, wash slurry, and rainfall to prevent overflow and include a minimum of 4" freeboard. Above-grade washouts should allow adequate at least 4" of freeboard for structural stability of berms or containment walls. The temporary pit containing dry waste concrete may be incorporated into fill areas as needed. The waste concrete may be broken into smaller pieces to allow proper soil compaction. The storage area should be lined with geotextile fabric to allow water to infiltrate, further aiding the dewatering and drying process.

Responsible Person: PRIMARY CONTRACTOR

2.4 Stabilize Soils

TS – Temporary Seeding:

- Installation Schedule: This measure will be applicable in all Phases of the project. All drainage swales and graded areas shall be applied with vegetative cover as soon as final grade is achieved. All roadway and parking shoulders should be applied with vegetative cover as soon as final grade is achieved. Mulch or temporary grassing shall be applied to all exposed areas within 14 days of land disturbance. All disturbed areas left mulched after 30 days shall be stabilized with temporary grassing.
- Maintenance and Inspection: Contractor shall inspect control measures at the end of each working day to ensure measures are functioning properly. Sediment and erosion control measures should be checked after each rain event.

Responsible Person: PRIMARY CONTRACTOR

PS – Permanent Seeding:

- Installation Schedule: Permanent seeding shall be installed as soon as final grading is achieved and topsoil is applied. All roadway and parking shoulders should be applied with vegetative cover as soon as final grade is achieved. Mulch or temporary grassing shall be applied to all exposed areas within 14 days of land disturbance. All disturbed areas left mulched after 30 days shall be stabilized with temporary grassing.
- Maintenance and Inspection: Contractor shall inspect control measures at the end of each working day to ensure measures are functioning properly. Sediment and erosion control measures should be checked after each rain event.

Responsible Person: PRIMARY CONTRACTOR

CD – Check Dams

- Riprap check dams shall be installed in locations of concentrated flow along the proposed grass swales. The approximate location of these check dams are indicated on the attached Drawing C4.1, Erosion & Sediment Control Plan Phase 2. The check dams should be maintained according to the BMP specifications and details outlined in Appendix E.

Responsible Person: PRIMARY CONTRACTOR

CRS – Temporary Road Stabilization

- The entrance road will be stabilized with a 6" layer of coarse aggregate.
- Maintenance and Inspection: The road will be maintained with coarse aggregate. This may require top dressing with 1 – 3" of stone

Responsible Person: PRIMARY CONTRACTOR

2.5 Culvert Inlet and Outlet Protection

IP/OP – Inlet/Outlet Protection

- Storm drainage pipes are to be protected with inlet & outlet protection as shown on the attached plans. All sediment will be removed from the pipes prior to final stabilization.
- Maintenance and Inspection: The culverts should be inspected daily for any deposition of sediment. Should sediment be present in the culvert, other erosion control measures should be checked immediately for failures. Any failures should be repaired immediately. Silt should be removed only from wet weather conveyance culverts in the dry.
- When required, the filter ring should surround all sides of the structure receiving runoff from disturbed areas. The ring should be constructed so that it does not cause flooding or damage to adjacent areas.

Responsible Person: PRIMARY CONTRACTOR

SECTION 3: GOOD HOUSEKEEPING BMP's

3.1 Good Housekeeping BMP's

Each contractor is responsible to provide litter control for trash generated by his crew. A dumpster for garbage will be located near the construction trailer and is limited to garbage and paper trash only. Paint cans, oil cans, used oil, and filters will be contained and disposed of by the contractor by taking them to the local hazardous disposal center.

Any spillage noted during fueling of equipment and vehicles will be removed immediately. Contaminated soils will be placed on heavy plastic and covered or placed into approved containers to prevent contact with storm water.

- **If a release containing a hazardous substance in an amount equal to or in excess of a reporting quantity established under either 40 CFR117 or 40 CFR302 occurs during a 24-hour period, the contractor will immediately notify the permittee who shall then do the following: notify the NATIONAL RESPONSE CENTER (NRC) at (800) 424-8802 and the TENNESSEE EMERGENCY MANAGEMENT AGENCY (TEMA) (emergencies: 800-262-3300; non-emergencies: 800-262-3400); as well as the local Environmental Assistance Center (423) 634-5745.**
- **Also, Thompson Engineering will prepare a revision of this document to identify measures to prevent the reoccurrence of such releases.**

SECTION 4: MAINTENANCE and INSPECTIONS

4.1 Maintenance

1. Ensure that vegetation, erosion and sediment control measures and other protective measures identified in this plan are kept in good and effective operating condition. Maintenance needs identified in inspections or by other means shall be accomplished before the next storm event if possible, but in no case more than seven (7) days after the need is identified. If maintenance prior to the next storm event is impractical, maintenance must be scheduled and accomplished as soon as partial.
2. All measures will be maintained in good working order. If repair is necessary, it will be initiated within 48 hours of identification.
3. If the controls are installed and maintained correctly, but are found to provide an inadequate level of protection, contractor or owner will contact Thompson Engineering to make revisions to this plan and these revisions will be implemented by the contractor.

4.2 Inspection and Records

1. A blank inspection form is located in Appendix B.
2. Contractor shall maintain a copy of the NOI and the SWPPP on-site and readily available to TDEC personnel on request.
3. Contractor shall keep a daily log of rain gauge readings on-site and readily available to TDEC personnel on request.
4. The contractor shall keep completed inspection and maintenance reports on-site and readily available to TDEC personnel on request.
5. All control measures will be inspected:
    - At least twice every week with the inspections occurring at least 72 hours apart.
    - Before anticipated storm events.
6. Silt fence will be inspected for excess sediment accumulation, damage, security of attachment to fence post, and to ensure that the fence and fence posts are buried properly into the ground.
7. Temporary and permanent seeding and plantings shall be inspected for bare spots, washouts and poor growth.
8. Outfall points shall be inspected to ensure that erosion control measures are in place and working.

SECTION 5: CERTIFICATION and NOTIFICATION

Prepare and submit Notice of Termination (NOT) to TDEC once the construction activities are completed and the final stabilization of the site is in place. A copy of this form is located in Appendix A.

The NOT shall be submitted to:

TDEC, Chattanooga Field Office
Attn: Jennifer Innes
540 McCallie Avenue, Suite 550
Chattanooga, TN 37402

APPENDIX A

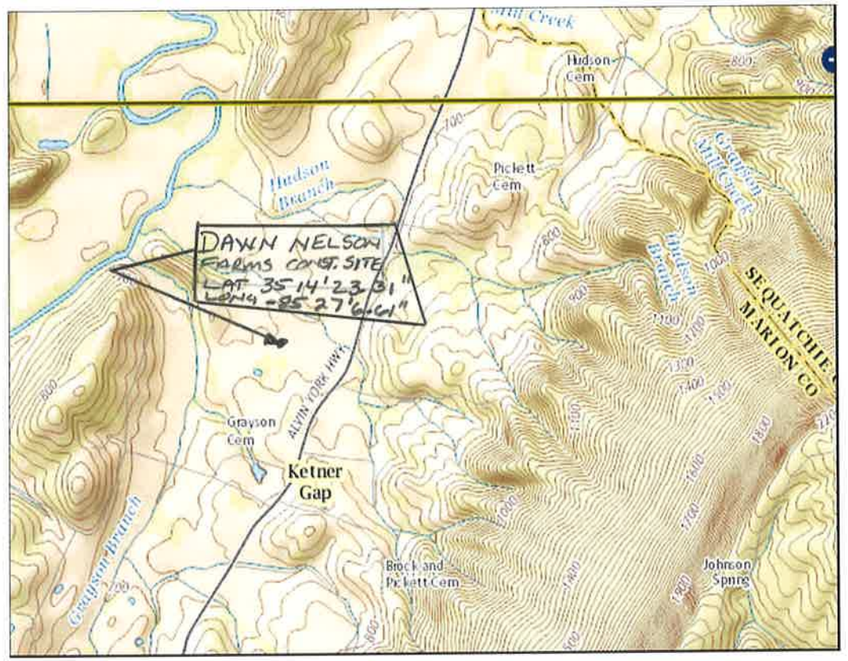
(Included Information)

1. Topographic Map

2. Notice of Intent (NOI)

3. Notice of Termination (NOT)

TOPO Dawn Nelson Farms



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC)
Division of Water Resources
William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243
1-888-891-TDEC (8332)

Notice of Termination (NOT) for General NPDES Permit for Stormwater Discharges from Construction Activities (CGP)

This form is required to be submitted when requesting termination of coverage from the CGP. The purpose of this form is to notify the TDEC that either all stormwater discharges associated with construction activity from the portion of the identified facility where you, as an operator, have ceased or have been eliminated; or you are no longer an operator at the construction site. Submission of this form shall in no way relieve the permittee of permit obligations required prior to submission of this form. Please submit this form to the local DWR Environmental Field Office (EFO) address (see table below). For more information, contact your local EFO at the toll-free number 1-888-891-8332 (TDEC).

Type or print clearly, using ink.

Site or Project Name: Dawn Nelson	**NPDES Tracking Number: TNR**
Street Address or Location: 4391 Alvin York Hwy	County(ies): Marion

Name of Permittee Requesting Termination of Coverage: Dawn Nelson			
Permittee Contact Name: Dawn Nelson	Title or Position: Owner		
Mailing Address: 4391 Alvin York Hwy	City: Whitwell	State: TN	Zip: 37397
Phone: (423) 414-1197	E-mail: dawnnelsonfarms@att.net		

Check the reason(s) for termination of permit coverage:

☐	Stormwater discharge associated with construction activity is no longer occurring and the permitted area has a uniform 70% permanent vegetative cover OR has equivalent measures such as rip rap or geotextiles, in areas not covered with impervious surfaces.
☐	You are no longer the operator at the construction site (i.e., termination of site-wide, primary or secondary permittee coverage).

Certification and Signature: (must be signed by president, vice-president or equivalent ranking elected official)

I certify under penalty of law that either: (a) all stormwater discharges associated with construction activity from the portion of the identified facility where I was an operator have ceased or have been eliminated or (b) I am no longer an operator at the construction site. I understand that by submitting this notice of termination, I am no longer authorized to discharge stormwater associated with construction activity under this general permit, and that discharging pollutants in stormwater associated with construction activity to waters of the United States is unlawful under the Clean Water Act where the discharge is not authorized by a NPDES permit. I also understand that the submittal of this notice of termination does not release an operator from liability for any violations of this permit or the Clean Water Act.

For the purposes of this certification, elimination of stormwater discharges associated with construction activity means that all stormwater discharges associated with construction activities from the identified site that are authorized by a NPDES general permit have been eliminated from the portion of the construction site where the operator had control. Specifically, this means that all disturbed soils at the portion of the construction site where the operator had control have been finally stabilized, the temporary erosion and sediment control measures have been removed, and/or subsequent operators have obtained permit coverage for the site or portions of the site where the operator had control.

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Permittee name (print or type):	Signature:	Date:

EFO	Street Address	Zip Code	EFO	Street Address	Zip Code
Memphis	8383 Wolf Lake Drive, Bartlett, TN	38133	Cookeville	1221 South Willow Ave.	38506
Jackson	1625 Hollywood Drive	38305	Chattanooga	1301 Riverfront Parkway, Ste. 206	37402
Nashville	711 R S Gass Boulevard	37243	Knoxville	3711 Middlebrook Pike	37921
Columbia	1421 Hampshire Pike	38401	Johnson City	2305 Silverdale Road	37601

APPENDIX B

(Included Information)

1. Inspection Certification (TDEC CN-1173; Rev. 2-13)

2. Rainfall Record Sheets

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC)
Division of Water Resources
William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243
1-888-891-8332 (TDEC)
General NPDES Permit for Stormwater Discharges from Construction Activities (CGP)

Construction Stormwater Inspection Certification (Twice-Weekly Inspections)

Site or Project Name:			**NPDES Tracking Number: TNR**	
Primary Permittee Name:			Date of Inspection:	
Current approximate disturbed acreage:		Has rainfall been checked/documented daily? Yes No	Name of Inspector:	
Current weather conditions:			Inspector's TNEPSC Certification Number:	

Please check the box if the following items are on-site:

☐ Notice of Coverage (NOC) ☐ Stormwater Pollution Prevention Plan (SWPPP) ☐ Twice-weekly inspection documentation

☐ Site contact information ☐ Rain Gage Off-site Reference Rain Gage Location: _____

Best Management Practices (BMPs):

Are the Erosion Prevention and Sediment Controls (EPSCs) functioning correctly: If "No," describe below in Comment Section			
1.	Are all applicable EPSCs installed and maintained per the SWPPP?	☐Yes	☐No
2.	Are EPSCs functioning correctly at all disturbed areas/material storage areas per section 4.1.5?	☐Yes	☐No
3.	Are EPSCs functioning correctly at outfall/discharge points such that there is no objectionable color contrast in the receiving stream, and no other water quality impacts per section 5.3.2?	☐Yes	☐No
4.	Are EPSCs functioning correctly at ingress/egress points such that there is no evidence of track out?	☐Yes	☐No
5.	If applicable, have discharges from dewatering activities been managed by appropriate controls per section 4.1.4? If "No," describe below the measures to be implemented to address deficiencies.	☐Yes	☐No
6.	If construction activity at any location on-site has temporarily/permanently ceased, was the area stabilized within 14 days per section 3.5.3.2? If "No," describe below each location and measures taken to stabilize the area(s).	Yes	No
7.	Have pollution prevention measures been installed, implemented, and maintained to minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters per section 4.1.5? If "No," describe below the measures to be implemented to address deficiencies.	Yes	No
8.	If a concrete washout facility is located on site, is it clearly identified on the project and maintained? If "No," describe below the measures to be implemented to address deficiencies.	N/A Yes	No
9.	Have all previous deficiencies been addressed? If "No," describe the remaining deficiencies in the Comments section. Check if deficiencies/corrective measures have been reported on a previous form.	Yes	No

Comment Section. If the answer is "No" for any of the above, please describe the problem and corrective actions to be taken. Otherwise, describe any pertinent observations:

Certification and Signature (must be signed by the certified inspector and the permittee per Sections 3.5.8.2 (g) and 7.7.2 of the CGP)

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Inspector Name and Title:	Signature:	Date:
Primary Permittee Name and Title:	Signature:	Date:

Construction Stormwater Inspection Certification Form (Twice-Weekly Inspections)

Purpose of this form/ Instructions

An inspection, as described in section 3.5.8.2. of the General Permit for Stormwater Discharges from Construction Activities
("Permit"), shall be performed at least twice every calendar week and documented on this form. Inspections shall be performed at least
72 hours apart. Where sites or portion(s) of construction sites have been temporarily stabilized, or runoff is unlikely due to winter conditions (e.g., site covered with snow or ice), such inspection only has to be conducted once per month until thawing results in runoff or construction activity resumes.

Inspectors performing the required twice weekly inspections must have an active certification by completing the "Fundamentals of Erosion Prevention and Sediment Control Level I" course. (http://www.tnepsc.org/). A copy of the certification or training record for inspector certification should be kept on site.

Qualified personnel, as defined in section 3.5.8.1 of the Permit (provided by the permittee or cooperatively by multiple permittees) shall inspect disturbed areas of the construction site that have not been finally stabilized, areas used for storage of materials that are exposed to precipitation, structural control measures, locations where vehicles enter or exit the site, and each outfall.

Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the site's drainage system. Erosion prevention and sediment control measures shall be observed to ensure that they are operating correctly.

Outfall points (where discharges leave the site and/or enter waters of the state) shall be inspected to determine whether erosion prevention and sediment control measures are effective in preventing significant impacts to receiving waters. Where discharge locations are inaccessible, nearby downstream locations shall be inspected. Locations where vehicles enter or exit the site shall be inspected for evidence of offsite sediment tracking.

Based on the results of the inspection, any inadequate control measures or control measures in disrepair shall be replaced or modified, or repaired as necessary, before the next rain event if possible, but in no case more than 7 days after the need is identified.

Based on the results of the inspection, the site description identified in the SWPPP in accordance with section 3.5.1 of the Permit and pollution prevention measures identified in the SWPPP in accordance with section 3.5.2 of the Permit, shall be revised as appropriate, but in no case later than 7 days following the inspection. Such modifications shall provide for timely implementation of any changes to the SWPPP, but in no case later than 14 days following the inspection.

All inspections shall be documented on this Construction Stormwater Inspection Certification form. Alternative inspection forms may be used as long as the form contents and the inspection certification language are, at a minimum, equivalent to the division's form and the permittee has obtained a written approval from the division to use the alternative form. Inspection documentation will be maintained on site and made available to the division upon request. Inspection reports must be submitted to the division within 10 days of the request.

Trained certified inspectors shall complete inspection documentation to the best of their ability. Falsifying inspection records or other documentation or failure to complete inspection documentation shall result in a violation of this permit and any other applicable acts or rules.

RAINFALL RECORD SHEET

Month/Year: _____

Day	Rainfall (inches)	Start Time	End Time	Misc./Outside Temp.
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
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APPENDIX D

(Included Information)

1. Site Soil Survey

Soil Map—Marion County, Tennessee
(Dawn Nelson Farm)

USDA Natural Resources Conservation Service

Web Soil Survey
National Cooperative Soil Survey

5/19/2016
Page 1 of 3

Pg. 2 of 4

Soil Map—Marion County, Tennessee
(Dawn Nelson Farm)

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Marion County, Tennessee
Survey Area Data: Version 14, Sep 19, 2015

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 12, 2011—Oct 14, 2011

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Pg. 3 of 4

Map Unit Legend

Marion County, Tennessee (TN115)			
Map Unit Symbol	**Map Unit Name**	**Acres in AOI**	**Percent of AOI**
Cb	Capshaw silt loam, eroded undulating phase	1.4	3.4%
Ea	Emory silt loam	0.0	0.0%
Ec	Etowah silty clay loam, eroded rolling phase	6.8	16.2%
Ed	Etowah silty clay loam, severely eroded rolling phase	0.2	0.4%
Ha	Hamblen loam	2.8	6.7%
Sg	Sequatchie loam, eroded undulating phase	9.4	22.6%
Sm	Staser loam	13.0	31.2%
Wm	Whitwell loam	8.1	19.5%
Totals for Area of Interest		**41.7**	**100.0%**

Tennessee Department of Environment and Conservation
1301 Riverfront Parkway, Suite 206
Chattanooga, TN 37402

July 12, 2016

Subject: Buffer

Dear TDEC,

Thompson Engineering has prepared a SWPPP for Dawn Nelson Farms for the construction of two (2) new 54' x 500' poultry houses in Marion County Tennessee. A preconstruction site visit was completed with TDEC on May 18, 2016. Micah Gravitt of the Department looked at the site with the owner Dawn Nelson and myself. After a review of the site it was requested that a 60' buffer exist between the road/loadout area and the drainage area, and if not feasible then a 30' buffer would be required with a written explanation.

Due to the property boundaries and specification requirements a 60' buffer was not achievable. After discussion with the property owner and Koch Foods the loadout area was reduced to obtain a ±48' buffer in most locations and a 39' buffer in one small area (reference attached drawing). If you have any questions/comments please don't hesitate to call.

Sincerely,

Eric Higgins
Project Manager
ehiggins@thompsonengineering.com

Thompson ENGINEERING

630 Chestnut Street, Chattanooga, TN 37402
423.637.0004(c) | 423.756.7970(o) | 423.756.7950(f)

Micah Gravitt

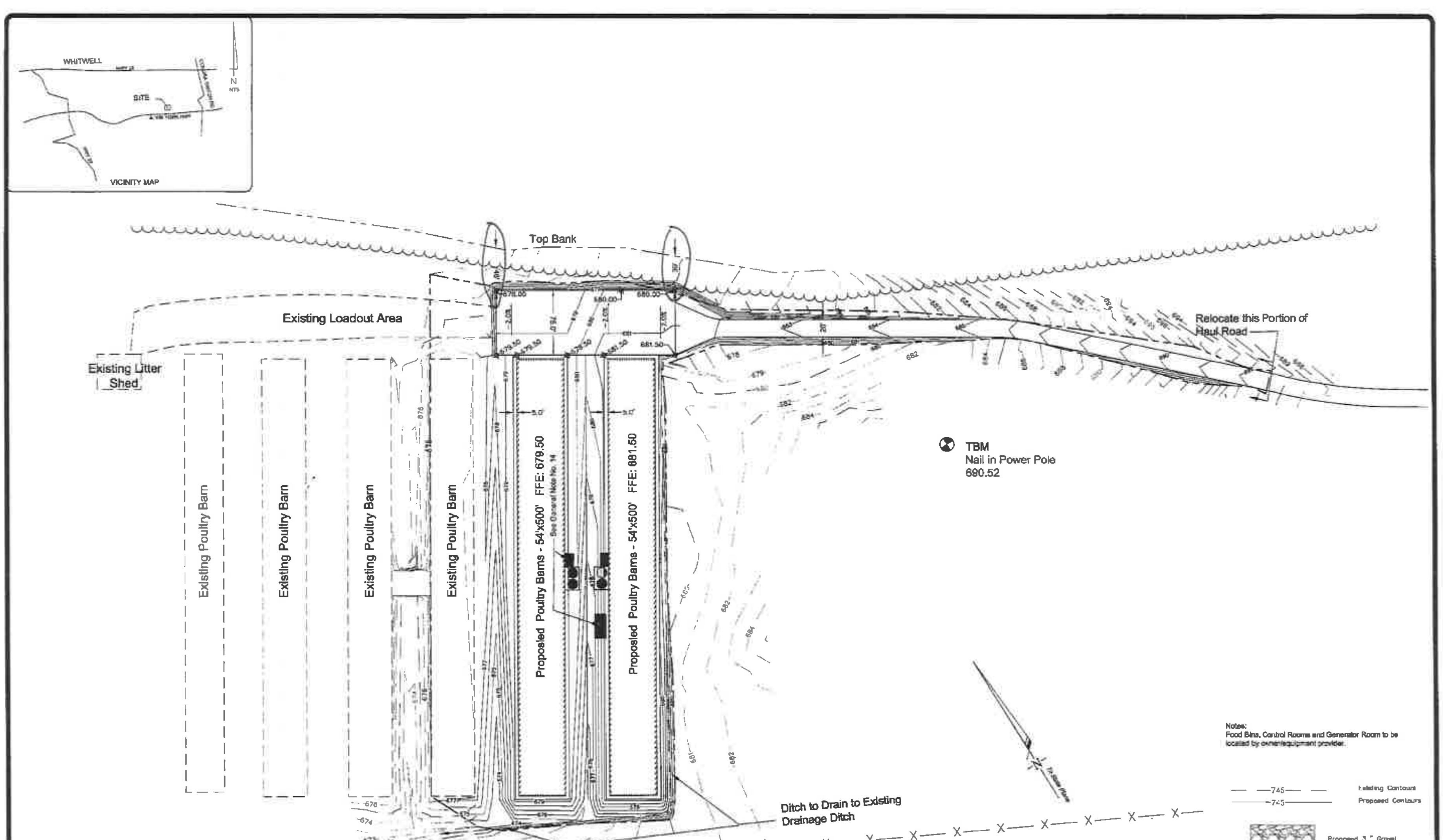
From: Eric Higgins <ehiggins@thompsonengineering.com>
Sent: Monday, August 01, 2016 3:00 PM
To: Micah Gravitt
Subject: Revised Justification Letter
Attachments: TDEC Justification Buffer 39 to 48.docx

Micah,

I have attached the corrected Justification Letter. I changed the 50' to 60' in the letter.

Thanks,

Eric Higgins



Earthwork Quantities
Cut: 4,061 Cu. Yds.
Fill: 5,478 Cu. Yds.

Borrow Material shall be excavated onsite.

Dawn Nelson Farm
4391 Alvin York Hwy
Whitwell, Tn 37397

thompson ENGINEERING

TE Project No. 1011090010
Drawing No. 16-1109-0010
Drawn By: JD
Checked By: EH
Date of Survey: 6.28.16
Date of Last Revision: 7.11.16

SITE GRADING AND DRAINAGE PLAN

C1.0
1 of 5